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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: <u>7/21/04</u> (Use as many sheets as necessary)		Complete if Known	
Application Number		10/689,547	
Filing Date		10/21/2003	
First Named Inventor		Percy Van Crocker	
Group Art Unit		2012 1756	
Examiner Name		Unassigned John Ruggles	
Attorney Docket Number		083847-0198	

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
JSR	A1	4,200,668		Segal et al.	04-29-1980	
	A2	4,727,234		Oprysko et al.	02-23-1988	
	A3	5,126,574		Gallagher	06-30-1992	
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	A5	5,674,409		Muller	10-07-1997	
	A6	5,747,120		McLean, II et al.	05-05-1998	
	A7	5,751,683		Kley	05-12-1998	
	A8	5,756,997		Kley	05-26-1998	
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	A10	5,798,193		Pierrat et al.	08-25-1998	
	A11	5,854,487		Braunstein et al.	12-29-1998	
	A12	5,879,860		Rosolen et al.	03-09-1999	
	A13	5,948,470		Harrison et al.	09-07-1999	
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	A19	6,106,980		Pierrat et al.	08-22-2000	
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	A27	6,309,580	B1	Chou	10-30-2001	
	A28	6,310,342		Braunstein et al.	10-30-2001	
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	A40	2002/0122873	A1	Mirkin et al.	09-05-2002	
	A41	2003/0162004	A1	Mirkin et al.	08-28-2003	

 Examiner
Signature

/John Ruggles/

 Date
Considered

05/11/2006

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: <u>7/21/04</u> (use as many sheets as necessary)				Applicant Number	10/689,547
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				First Named Inventor	Percy Van Crocker
				Group Art Unit	2642 1756
				Examiner Name	Unassigned John Ruggles
Sheet	2	of	2	Attorney Docket Number	083847-0198

U.S. PATENT DOCUMENTS					
		U.S. Patent Document			
JSR	A42	2004/0026007	A1	Hubert et al.	02-12-2004
JSR	A43	2004/0101469	A1	Demers	05-27-2004

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
JSR	A44	WO	98/34092	A2	Rave, L.L.C.	08-06-1998		
JSR	A45	WO	03/019238	A2	Aaron Lewis	03-06-2003		
JSR	A46	WO	03/021297	A2	Aaron Lewis	03-13-2003		

NON PATENT LITERATURE DOCUMENTS							
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.					T ⁶
JSR	A47	K. LIEBERMAN et al., "Near-field optical photomask repair with a femtosecond laser", <i>Journal of Microscopy</i> , Vol. 194, Pt 2/3, May/June 1999, pp. 537-541.					
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	A50	http://www.micromagazine.com/archive/99/10/prodact1.htm , "Machine Vision Software Improves Accuracy of Photomask Repair System", Oct. 99.					
	A51	YOUNAN XIA et al., "Unconventional Methods for Fabricating and Patterning Nanostructures", <i>American Chemical Society</i> , 1999, pp. 1823-1848.					
JSR	A52	NAKAMURA, "Divot defect repair on a deep ultraviolet SiNx halftone mask", <i>American Vacuum Society</i> (1996), pp. 3892-3895					

Examiner Signature	/John Ruggles/	Date Considered	05/11/2006
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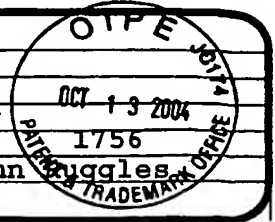
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Sheet	1	of	1		



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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
JSR	B1	WO	00/41213	A	Northwestern Univ.	07-13-2000		
JSR	B2	WO	01/91855	A1	Northwestern Univ. et al.	12-06-2001		
JSR	B3	WO	02/45215	A	Mirkin et al.	06-06-2002		

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JSR	B4	TODD, B., et al., "Atomic force metrology and 3D modeling of micro-trenching in etched photomask features", PROCEEDINGS OF THE SPIE - THE INTERNATIONAL SOCIETY FOR OPTICAL ENGINEERING, PROC. SPIE-INT. SOC. OPT. ENG, vol. 4409, pp. 618-631 (July 2002).	
JSR	B5	Copy of International Search Report dated 8/12/2004	

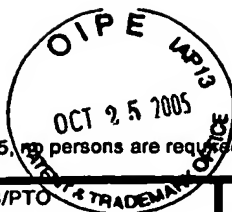
Examiner Signature	/John Ruggles/	Date Considered	05/11/2006
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Substitute for form 1449B/PTO			Compl to If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT			Application Number	10/689,547
Date Submitted: October 25, 2005			Filing Date	10/21/2003
(use as many sheets as necessary)			First Name of Inventor	Crocker
			Group Art Unit	1756
			Examiner Name	Ruggles
Sheet	1	of 3	Attorney Docket Number	083847-0198

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
JSR	C1	4,160,049		Narcus	07-03-1979	
	C2	5,104,684		Tao	04-14-1992	
	C3	5,441,386		Hsieh	08-15-1995	
	C4	5,980,998		Sharma et al.	11-09-1999	
	C5	6,090,507		Grenon et al.	07-18-2000	
	C6	6,096,459		Yang	08-01-2000	
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JSR	C19	ALI, M. B., et al., "Atomic Force Microscope Tip Nanoprinting of Gold Nanoclusters", Langmuir, vol. 18, pp. 872-876 (2002).	
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JSR	C21	CHEN, K. M., et al., "Selective Self-Organization of Colloids on Patterned Polyelectrolyte Templates", Langmuir, vol. 16, pp. 7825-7834 (2000).	

Examiner Signature		Date Considered	5/11/06
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JSR	C22	CHIBA, A., et al., "Investigation of Pulsed Laser Removal of Cr and MoSi Film on a Quartz Substrate", Jpn. J. Appl. Phys., vol. 38, part 1, no. 12A, pp. 6577-6582 (1999)		
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	C27	HIDBER, P. C., et al., "Microcontact Printing of Palladium Colloids: Micron-Scale Patterning by Electroless Deposition of Copper", Langmuir, vol. 12, pp. 1375-1380 (1996).		
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	C31	MÜLLER, A. D., et al., "Localized electrochemical deposition of metals using micropipettes", Thin Solid Films, vol. 366, pp. 32-36 (2000).		
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	C33	SENTURIA, S. D., MICROSYSTEM DESIGN, Kluwer Academic Publishers, Norwell, MA, pp. 50-57 (2001).		
	C34	SKINNER, J. G., et al., "Photomask Fabrication Procedures and Limitations", Handbook of Microlithography, Micromachining, and Microfabrication, SPIE Optical Engineering Press, Bellingham, WA, vol. I, Chptr. 5, pp. 377-474 (1997).		
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Examiner Signature	<i>John Ruggles</i>	Date Considered	5/11/06
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JSR	C37	TSUBOKAWA, N., et al., "Carbon Black/Alumina Gel Composite: Preparation by Sol-Gel Process in the Presence of Polymer-Grafted Carbon Black and Its Electric Properties", J. Poly. Sci. Part A-Polymer Chemistry, vol. 37, no. 18, pp. 3591-3597 (1999).		
	C38	WANG, X., et al., "Scanning Probe Contact Printing", Langmuir, vol. 19, pp. 8951-8955 (2003).		
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	C41	WILSON, O., et al., "Laser Writing in Polarized Silver Nanorod Films", Adv. Mater., vol. 14, no. 13, pp. 1000-1004 (2002).		
	C42	WOLF, S., et al., <u>Silicon Processing for the VLSI Era</u> , Lattice press, Sunset Beach, CA, pp. 485-486 (1986).		
	C43	WUELFING, W. P., et al., "Monolayer-Protected Clusters: Molecular Precursors to Metal Films", Chem. Mater., vol. 13, pp. 87-95 (2001).		
JSR	C44	ZHANG, W., et al., "Multilevel nanopimprint lithography with submicron alignment over 4 in. Si wafers", Appl. Phys. Letts., vol. 79, no. 6, pp. 845-847 (2001).		

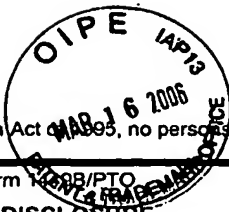
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STATEMENT BY APPLICANT**

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Sheet 1 of 1

Complete if Known

Application Number	10/689,547
Filing Date	10/21/2003
First Named Inventor	Percy VAN CROCKER et al.
Group Art Unit	1756
Examiner Name	John S. Ruggles
Attorney Docket Number	083847-0198

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
JSR	D1	6,197,455	B1	YEDUR et al.	03-06-2001	

U.S. PATENT APPLICATION DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Application Document		Name of Patentee or Applicant of Cited Document	Filing Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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FOREIGN PATENT DOCUMENTS

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume, issue number(s), publisher, city and/or country where published.	T ⁶

Examiner Signature

/John Ruggles/

Date Considered

05/11/2006

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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